**Fake News with Machine Learning**

In today’s fast-paced digital world, spreading fake news has become a significant concern. With the increasing ease of access to social media platforms and other online sources of information, it has become more challenging to distinguish between real and fake news. In this project-based article, we will learn how to build a machine-learning model to detect fake news accurately.

Project    :  Fake News with Machine Learning

Datasets/Data :  news.csv (https://www.kaggle.com/datasets/emineyetm/fake-news-detection-datasets)

Fake news on different platforms is spreading widely and is a matter of serious concern, as it causes social wars and permanent breakage of the bonds established among people. A lot of research is already going on focused on the classification of fake news.Using the Passive aggressive model calculate the rate of fake and truth news's. The project was done during the pursing the online courses of Data science ,Machine learning , Python, Machine learning, Data visualization,etc.

1. Importing Libraries :numpy, pandas, matplotlib, sklearn.

2. Read the data ,Data Preprocessing.

3. Spliting the dataset into test ,train datas.

4. DataFlair - Fit and transform train set, transform test set.

5. Initialize a Passive Aggressive Classifier.

6. Predict on the test set and calculate accuracy.

7. Set Random binomial for Confusion matrix.

8.Model training, Evaluation, and Prediction result in confusion\_matrix.

Model  : Passive Aggressive Classifiers

IDE : googlecolab

Programming Language : python